

Sylphid's Storm

Suite: Elemental Spirits

by Arya Akhavan (September 2012)

Angles for R.I. = 1.540

53 + 12 girdles = 65 facets

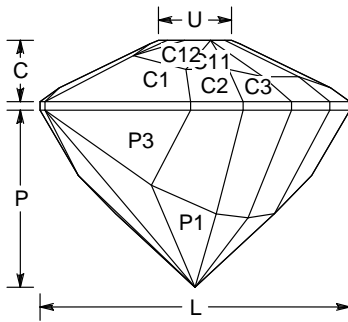
2-fold radial symmetry

96 index

L/W = 1.312 T/W = 0.315 U/W = 0.309

P/W = 0.750 C/W = 0.260

Vol./W³ = 0.515



PREFORM

X1	34.58°	23-71	Cut to centrepoint (use 23-47-71-95 to generate culet)
X2	42.58°	96-48	Meet culet.
X3	43.86°	44-92	Meet culet.
X4	44.14°	38-86	Meet culet.
X5	42.77°	34-82	Meet culet.
X6	39.18°	29-77	Meet culet.
G1	90.00°	96-48	Set stone size.
G2	90.00°	44-92	Cut level girdle.
G3	90.00°	38-86	Cut level girdle.
G4	90.00°	34-82	Cut level girdle.
G5	90.00°	29-77	Cut level girdle.
G6	90.00°	23-71	Cut level girdle.

PAVILION

	90.00°	34-82	
	90.00°	96-48	
	90.00°	44-92	
	90.00°	38-86	
	90.00°	23-71	
	90.00°	29-77	
P1	43.33°	01-11-23-33-39-49-59-71-81-87	Cut to centrepoint (remove all CAM facets, including X1)
P2	43.47°	17-65	Meet culet.
P3	80.45°	96-48	Meet G1, G6, P1, P2 (level girdle)
P4	73.42°	44-92	Meet G1, G2, P3; P1, P3 (level girdle)
P5	70.85°	38-86	Meet G2, G3, P4; P1, P4 (level girdle)
P6	68.28°	34-82	Meet G3, G4, P5; P1, P5 (level girdle)
P7	63.79°	29-77	Meet G4, G5, P6; P1, P6 (level girdle)
P8	59.16°	23-71	Meet G5, G6, P7; P1, P2, P7 (level girdle)

CROWN

C1	42.72°	96-48	Set girdle width.
C2	42.72°	04-52	Level girdle.
C3	43.15°	10-58	Level girdle.
C4	40.00°	14-62	Level girdle.
C5	37.86°	19-67	Level girdle.
C6	35.68°	25-73	Level girdle.
C7	25.56°	27-75	Meet G1, G6, C1, C6
C8	27.09°	21-69	Meet C5, C6, C7
C9	33.67°	14-62	Meet C4, C5, C8
C10	35.68°	11-59	Meet C3, C4, C9
C11	35.12°	04-52	Meet C2, C3, C10
C12	32.42°	02-50	Meet C1, C2, C11; C9, C10, C11
C13	18.43°	43-91	Meet C1, C7, C12
C14	17.41°	33-81	Meet C1, C7, C12, C13
T	0.00°	Table	Meet C9, C10, C11, C12

The crown layout was inspired by the weather symbol for hurricanes, since a sylphid is a wind spirit. The girdle outline was entirely trial-and-error, with lots of reflections and random scaling. Written for tan scapolite, but works in any material from feldspar to CZ (RI = 1.52 - 2.16) with no changes. Also works in fluorite!
Suggested oblique length = 12-18 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Modified Versions\Sylphid's Storm (barion version).gem